

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 7,090,033 B2  
APPLICATION NO. : 10/677917  
DATED : August 15, 2006  
INVENTOR(S) : Kwong-Onn C. Chan et al.

Page 1 of 1

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 5, lines 56-67, delete the paragraph beginning: "The invention has significant advantages. The valve assembly provides a safety shutoff to prevent the flow of gas or other formation fluids up through the drill string, particularly while running the drill string into the well or retrieving the drill string from the well. The valve assembly is particularly useful when drilling into deep coal beds that contain methane gas. The use of air as a drilling medium avoids having to utilize liquid drilling fluids, which tend to encroach into and damage such formations. The valve is easily moved between open and closed positions by manipulating the drill string. The valve can be retained in either the open or closed position."

Column 6, line 58, delete "to compress" and insert --compresses--

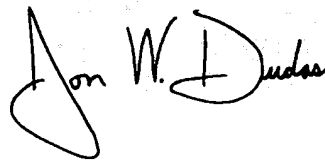
Column 9, line 11, delete ". Upon" and insert --and--;

Column 9, line 11 insert --are-- after "287"

Column 11, line 32, add the following paragraph: -- The invention has significant advantages. The valve assembly provides a safety shutoff to prevent the flow of gas or other formation fluids up through the drill string, particularly while running the drill string into the well or retrieving the drill string from the well. The valve assembly is particularly useful when drilling into deep coal beds that contain methane gas. The use of air as a drilling medium avoids having to utilize liquid drilling fluids, which tend to encroach into and damage such formations. The valve is easily moved between open and closed positions by manipulating the drill string. The valve can be retained in either the open or closed position.--

Signed and Sealed this

Twenty-sixth Day of December, 2006



JON W. DUDAS

*Director of the United States Patent and Trademark Office*